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LOOKING OUT FOR THE GRAVETTIAN IN GREECE

Eugenia ADAM⁽¹⁾

Abstract : The number of sites and the chronostratigraphic record of the Upper Palaeolithic in Greece does not encourage major overviews. Still, aspects of regional differentiation and temporal variation in the exploitation of resources can be addressed – if only in a preliminary manner – through the currently available data. The region of northwestern Greece offers an opportunity to investigate the character of Gravettian cultural data in this part of the Balkan peninsula. Intensification of research will no doubt enrich the corpus of data and support wider intra- and inter-regional comparisons.

Key-Words: Balkans, Kastritsa, Grava, stone industries, organic artefacts, symbolic gear.

Résumé : Une approche du Gravettien en Grèce. Le nombre de sites et les données chrono-stratigraphiques relatifs au Paléolithique supérieur en Grèce n'encourage pas de vastes synthèses. Cependant, quelques particularités régionales et une variation diachronique dans l'exploitation des ressources peuvent être présentées – d'une façon très préliminaire – à partir des données actuellement disponibles. Le nord-ouest de la Grèce offre une opportunité d'analyser les particularités de la culture gravettienne dans cette partie de la péninsule balkanique. Il n'est pas douteux que le développement des recherches enrichira cette base documentaire et permettra de plus larges comparaisons intra et inter-régionales.

Mots-clés : Balkans, Kastritsa, Grava, industries lithiques, outillages osseux, éléments symboliques.

BACKGROUND INFORMATION

Greece is an area of marked climatic and topographic contrasts, with a large Pleistocene and Early Holocene research potential but with a restricted and erratic research history. With the exception of few individual projects in the decades leading to the 1960's, research was practically non-existent. The 1960's, a decade that could be considered as the golden era of Stone Age research in Greece, resulted in the formation of a corpus of open-air and rockshelter sites representing human activity during the Palaeolithic and secondly the Mesolithic. The First International Congress on the Palaeolithic of Greece and Adjacent areas in 1994 recorded and evaluated the state of research at the time (Bailey *et al.* 1999). Several projects, initiated since, have brought to light new sequences and sites with occupational evidence from the Paleolithic to the Mesolithic times.

Nevertheless, the record remains patchy. Many factors may be responsible, either individually or in combination, for this: climatic and environmental fluctuations leading to discontinuity of occupation, tectonic and depositional activity affecting the visibility of sites, emphasis on different environmental niches at different times during the Pleistocene, low population densities during part(s) of the Pleistocene, to mention but a few.

The period during which the Gravettian – a “culture” characterized by a remarkable unity in technology, resource exploitation, site use and symbolic and artistic expression (Gamble 1999 ; Otte 1981; Valoch 1996) – flourished in Europe is by common consent taken to fall between 30 and 20 kyr. Few sites in Greece provide sequences corresponding to that period (see tabl. 1); three of these are located in northwestern Greece (Asprochaliko, Kastritsa, Grava), one in Thessaly (Theopetra) and one in the Peloponnese (Franchthi) (fig. 1). No other sites (except possibly for Kephalaria in central Greece, which remains regrettably not fully published) can be included in the time and type range of the present paper.

PRESENTATION AND DISCUSSION OF THE DATA

1 - Thessaly

Theopetra cave lies in a limestone formation (fig. 2) at an altitude of some 280 masl; the formation is situated on the north-western edge of the Thessalian plain, and thus lies between the western edge of the plain and the foothills of the eastern Pindus Mountains that constitute the natural border between Thessaly and Epirus (Kyparissi-Apostolika 2000). With the exception of some finds of Aurignacian

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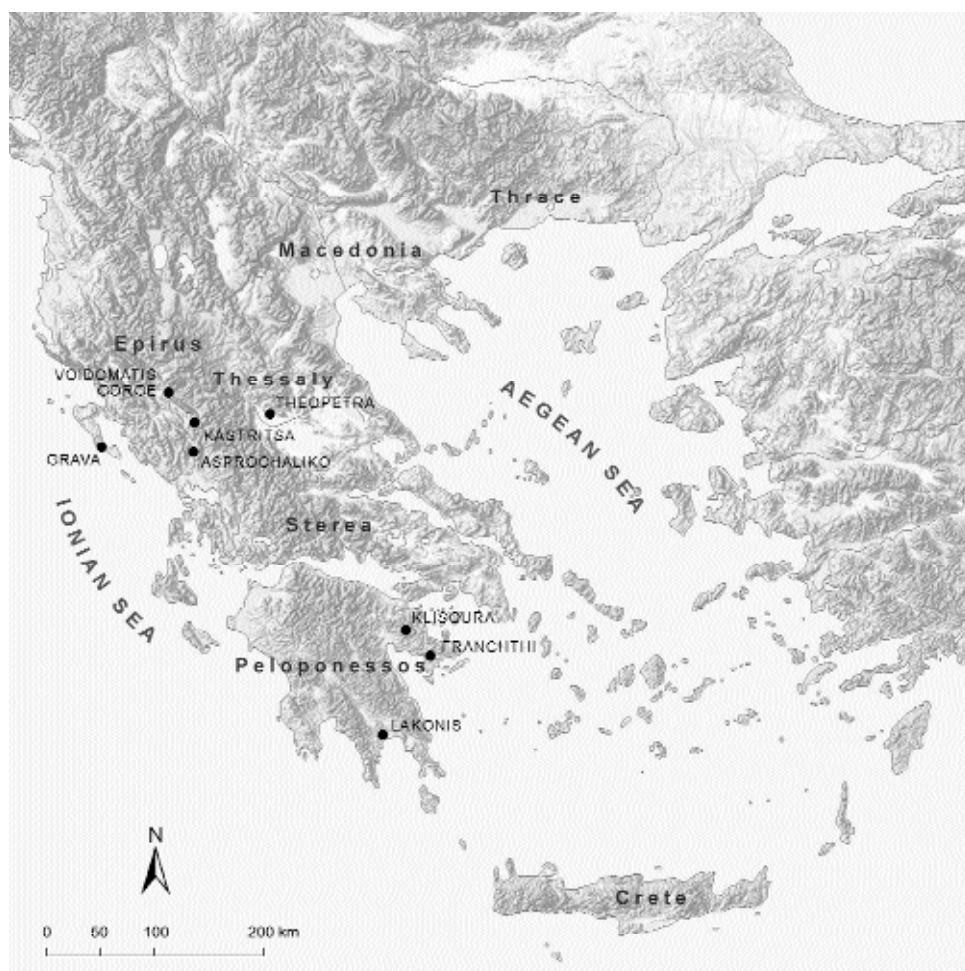


Figure 1 - Map of Greece indicating the location of the principal sites mentioned in the text.

Figure 1 - Carte de la Grèce montrant la localisation des principaux sites mentionnés dans le texte.

SITE	STRATIGRAPHIC UNIT	DATE B.P.	SOURCE
ASPROCHALIKO	Layer 10	26,100±900	Bailey et al. 1983
KASTRITSA	Layer 24 (stratum 9)	23,880±100	Galanidou & Tzedakis 2001
	Layer 21 (stratum 9)	21,800±470 20,200±480 23,840±240	Bailey et al. 1983 Bailey et al. 1983 Galanidou & Tzedakis 2001
	Layer 20 (stratum 7)	20,800±810	Bailey et al. 1983
	Layer 15 (stratum 5)	19,900±370 22,230±210	Bailey et al. 1983 Galanidou & Tzedakis 2001
	Layer 14 (stratum 5)	20,590±70	Galanidou & Tzedakis 2001
	Layer 13 (stratum 5)	21,350±80	Galanidou & Tzedakis 2001
	Layer 12 (stratum 5)	20,000±80	Galanidou & Tzedakis 2001
	Layer 7 (stratum 3)	19,660±160	Galanidou & Tzedakis 2001
	Layer 5 (stratum 1)	19,360±160	Galanidou & Tzedakis 2001
	Layer 2 (stratum 1)	13,400±210 15,930±130	Bailey et al. 1983 Galanidou & Tzedakis 2001
THEOPETRA	Unit/Episode II11	25,820±270 25,625±500	Karkanas 2001 Karkanas 2001

Table 1 - Radiocarbon dates of the principal sites discussed in the text.

Tableau 1 - Datations ¹⁴C des principaux sites évoqués dans le texte.



Figure 2 - General view of the Theopetra formation taken from the national road to Trikala (photo: E. Adam).

Figure 2 - Vue générale de la formation de Theopetra prise de la route nationale allant à Trikala (Photo E. Adam).

character, reported in the 1960's, Theopetra is so far the only site providing information on the Upper Palaeolithic and Mesolithic in Thessaly, all subsequent surveys having failed to identify Upper Palaeolithic and Mesolithic industries in the area (Runnels and van Andel 1999).

Excavations started in 1987 and have so far revealed a ca 6.5 metre – thick sequence with occupational events stretching from the Middle Palaeolithic to the Neolithic and recent times. Deposits (layers II10-II12) of Upper Palaeolithic date (see table 1), although represented over a large part of the excavated area, preserve very few securely classifiable artefacts (Adam 2000). The faunal material, too, (mostly herbivores of all sizes) appears to have undergone disturbances and intense destructive forces (Newton 1999). The sequence testifies to the existence of a series of cold phases, interspersed by periods of milder intervals (Karkanas 2001), such as the one represented by the extensive burning horizon dated at 25 kyr that is of interest here. The cold phases documented in the deposits may account for the non-availability of the site during a considerable part of the Upper Palaeolithic. Occupation at the site was resumed after about 14 kyr. The depositional process in the cave was further complicated by large bodies of invasive waters which, after the Late Glacial Maximum, removed an appreciable amount of the Upper Palaeolithic deposits, creating large channels and tunnels subsequently filled by later human activity (Karkanas 2001).

Artefact density at Theopetra is extremely low throughout the cultural sequence. The total of both Upper Palaeolithic and Mesolithic artefacts (from 15 excavation units analysed so far) amounts to the meagre number of 630.

The depositional record of the cave and the sample itself suggest we are faced with the remains of Upper

Palaeolithic industry/ies mixed with artefacts from the preceding Middle Palaeolithic and the subsequent Mesolithic occupational phases. The sample from the area of the extensive burning episode of 25 kyr, in particular, is very poorly represented. Apart from a few backed bladelets, no diagnostic tool-types are present in this sample whose size is such that no meaningful comparisons can be made with industries of the same age (i.e. Asprochaliko and Franchthi phases II, III, Temnata Cave). No organic artefacts are reported from these layers either.

2 - The Peloponnese

Franchthi cave is situated in a limestone peninsula of the Hermionid region in eastern Peloponnese, very close to the present sea-shore. Excavations conducted between 1967 and 1976 by T. W. Jacobsen and his team revealed a sequence of discrete occupational phases ranging from the Middle Palaeolithic to the Neolithic. The excavated deposits at Franchthi represent nearly 30.000 years of prehistory, but over half of that time-span is in the form of hiatuses. Amongst these, and of relevance to the present paper, is an interval coinciding with the maximum glacier expansion in central and northern Eurasia; the site was occupied more or less continuously after 15 kyr (Farrand 2000).

During the first period of Upper Palaeolithic occupation (before the LGM) the use of the site was sporadic; the density of the archaeological material is reported to be extremely low (Perles 1999). The assemblages from “Lithic Phases” (Perles 1987) II (dated to ca 23 kyr) and III (undated) exhibit a preponderance of backed bladelets (reaching 80% of the tool inventory) and a very low representation of end-scrapers, notches and laterally retouched pieces (at 5 % each). Burins, bone tools and ornaments are not present at Franchthi (Perles 1999).



Figure 3 - General view of Asprochaliko taken from the main Ioannina-Arta road (photo: E. Adam).

Figure 3 - Vue générale d'Asprochaliko prise de la route Ioannina-Arta (Photo E. Adam).

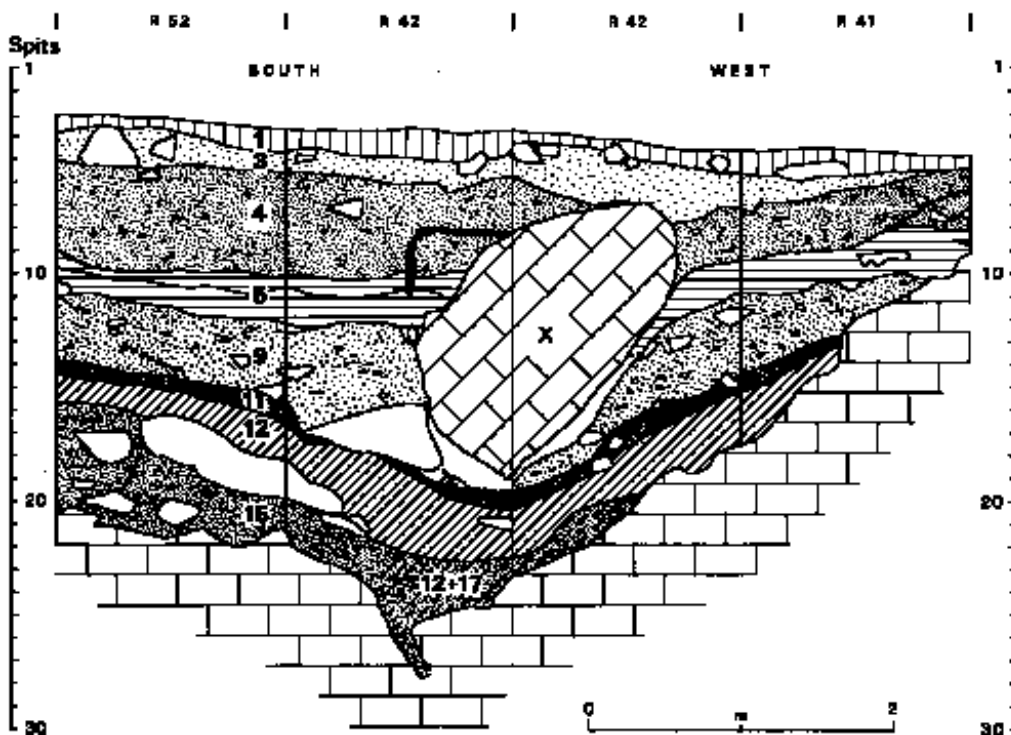


Figure 4 - Asprochaliko: west face of rectangles 41 and 42, and south face of rectangles 42 and 52 (after Bailey et al 1983, p.19).

Figure 4 - Asprochaliko: face ouest des rectangles 41 et 42 et face sud des rectangles 42 et 52 (d'après Bailey et al. 1983, p. 19).

Two projects under way in eastern Peloponnese have not yet yielded evidence of Gravettian character. Klissoura gorge (some 60 km west of Franchthi, see fig. 1) has been the focus of attention for the past decade and has supplied evidence of Pleistocene and Holocene occupation at various rockshelter locations. It is interesting to note that a well defined Aurignacian sequence has been excavated in Cave 1, dated to the period between 24-20 kyr and followed by an Epigravettian phase dated to after 14 kyr (Koumouzelis *et al.* 2004). On the other hand, Lakonis cave, on the eastern coast of the Mani peninsula (fig. 1), under excavation since 1999, yielded a long cultural sequence preserving Middle Palaeolithic and Initial Upper Palaeolithic occupation layers, radiometrically dated from ca 100 to 40 kyr (Panagopoulou *et al.* 2004), but no later material.

3 - Northwest Greece

The **rockshelter** of **Asprochaliko** (fig.3) is situated on a limestone formation on the right bank of the Louros river; located at an altitude of 200 masl it oversees the Louros valley. Excavations by the late E.S. Higgs and the late S.I. Dakaris between 1964 and 1966 established a sparingly dated sequence ranging from the Middle Palaeolithic to the Upper Palaeolithic (Higgs and Vita Finzi 1966). Only part of the site was excavated. The deposits are divided in two major units: those inside and those outside the rockshelter; the latter include both *in situ* and mixed deposits, and the cultural data retrieved from them cannot – with the exception of the Mousterian industry in layer 18 – “...be treated with any confidence” (Bailey *et al.* 1983 p.24). Following that, we can only truly concentrate on the deposits inside the rockshelter (fig.4). This sequence runs through 5 m of deposits of stony clays and includes basal Mousterian (dated to ca 100 kyr) followed by upper Mousterian (originally named “micromousterian”) and finally by Upper Palaeolithic industries.

A single date of 26 kyr (layer 10) provides a minimum date for these industries. Attempts to obtain further radiocarbon dates from this part of the sequence were hindered by lack of collagen in the bones sampled for dating (Gowlett and Carter 1997). A sterile layer (layer 13) running throughout the excavated area and located between the Middle and the Upper Palaeolithic layers indicates a major hiatus in the occupation of the site. The faunal collections remain not fully studied but they are reported to be dominated by cervids and caprines (Bailey *et al.* 1983).

The Upper Palaeolithic industries from Asprochaliko (Adam 1989) are characterized by the lack of laminar blank production; indeed there are no blades or blade cores. Most cores are flake cores worked with limited preparation and maintenance and by frequent change of the flaking direction. The tool inventory (fig. 5) is dominated by bladelet tools (at ca 58 %) followed by end-scrapers (at ca 14.6 %) and laterally retouched pieces (at ca 6 %), all made on flakes. No burins are present in the industries. The range of the backed bladelet types is limited and includes mostly unilaterally backed forms. Microburins are absent. No organic artefacts are as yet reported from Asprochaliko.

The **Kastritsa** ridge (fig.6) is a karst formation isolated in the Ioannina basin, some 10 km southeast of Ioannina and Lake Pamvotis. The homonymous site, at an altitude of ca 470 masl excavated by E.S. Higgs and his team during two excruciating field seasons in 1966 and 1967 (Higgs *et al.* 1967), lies at the western slope of the ridge (fig.7). The excavations reached a maximum depth of some 9 metres, revealing a sequence (fig. 8) of three units of terrestrial (strata 1,3,5), beach (strata 7,9) and lake (lower stratum 9) deposits (Bailey *et al.* 1983). The sequence is framed by sets of radiocarbon dates (by four original dates between ca 22 and 13 kyr – Bailey *et al.* 1983, and by one recent set of AMS dates between ca 24 and 15 kyr, Galanidou and Tzedakis 2001, see tabl. 1). The archaeological record from the first unit of deposits, that is the upper part of the sequence, testifies to more intensive use of the site compared to the lower ones. A number of recent analytical and interpretative studies (Elefanti 2003 ; Galanidou 1997 ; Kotjabopoulou 2001) focussing on particular aspects of the cultural data from Kastritsa have stressed its profile as a multi-purpose camp. The Kastritsa sequence offers both a window in diachronic techno-typological differentiation and a case of activity documentation, so far unparalleled by any other site on greek territory.

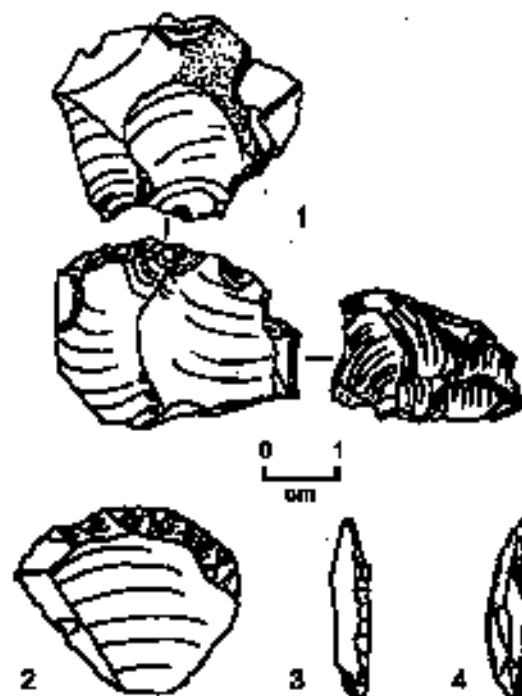


Figure 5 - Asprochaliko: selected artefacts from layers 4 and 10 (drawn by E. Adam).

Figure 5 - Asprochaliko : sélection d'objets provenant des couches 4 et 10 (dessins E. Adam).



Figure 6 - General view of the Kastritsa formation taken from Mount Mitsikeli (photo: E. Adam).

Figure 6 - Vue générale de la formation de Kastritsa prise du Mont Mitsikeli (Photo : E. Adam).



Figure 7 - General view of the Kastritsa cave taken from west, along the local district road (photo: E. Adam).

Figure 7 - Vue générale de la grotte de Kastritsa vue de l'ouest, de la route départementale (Photo E. Adam).

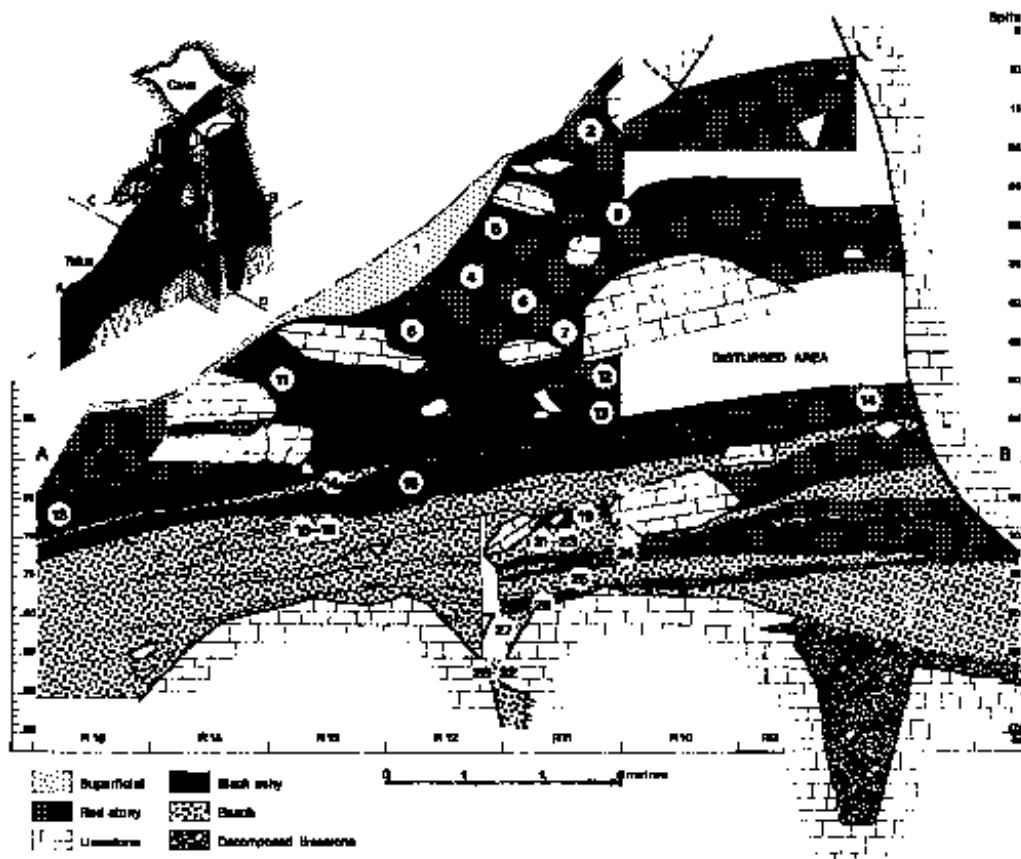


Figure 8 - Kastritsa: longitudinal section through Kastritsa deposits (after Bailey et al. 1983, p. 28).

Figure 8 - Kastritsa : coupe longitudinale (d'après Bailey et al. 1983, p. 28).

For the purposes of this paper we shall concentrate on strata 5 and 3 that fall well within the temporal range of the Gravettian; the topmost stratum 1 exhibits technological as well as chronological differentiation (Adam 1989, 1997, 1999).

The stone industries from Kastritsa are organised around two major parameters. One is the harvesting, for subsistence purposes, of populations of large ungulates (mostly red deer, and to a lesser degree aurochs and steppe ass as well as birds, Bailey et al 1983). The other parameter is the transformation of animal products (e.g. hide, antler, bone) into functional and decorative (symbolic, too) gear.

A general trend in the industries from strata 5 and 3 is – in contrast to Asprochaliko – the ability to produce long and straight blanks through controlled and predetermined exploitation of the cores.

The industry from stratum 5 (fig.9) is, like in all strata, dominated by flakes; blades and bladelets are represented

in roughly equal numbers. A type of flint, originating from the Voidomatis river area some 50 km northeast from Kastritsa is present in small quantities. Blade cores make their first appearance in the sequence. Shouldered pieces and points (by a single example each), and micro-gravettes appear for the first time in the industrial sequence². The number of piercers, dihedral burins and burins on breaks increases. End-scrapers are present in similar quantities to the burins; non- bladelet tools also include laterally retouched blades and totally or partially retouched pieces. Bladelet tools account for 51% of the tool group, and are represented mainly by unilaterally backed bladelets, plain (and secondly truncated, and bilaterally backed bladelets with opposed retouch and with inverse retouch on the ends).

The industry from stratum 3 (fig.10, 11) exhibits technological differentiation: the number of the cores increases and there is a shift in the method of their exploitation : turning of the cores during flaking is replaced by the adoption of a

(2) A total of 20 shouldered points was part of a collection of 65 artefacts representative of the industries, compiled by the Higgs' team in 1966, and subsequently illustrated in P.P.S. 1967. The collection was exported to England, possibly for exhibition purposes, and was finally returned to the Ioannina Archaeological Museum by the Bailey team in 1985. Each artifact bears a unique code-number that allows it to be traced – through the meticulous Flint Bag Number lists – to its original provenance (rectangle, spit, layer), a task undertaken by the present author; according to these the shouldered points come from rectangles 2 and 3, stratum 1. Their presence had lead Higgs to postulate on the existence of a shouldered point horizon in the Kastritsa sequence (Higgs et al. 1967). The subsequent analysis of the industries showed that shouldered points occur from as early as stratum 5 with their number increasing progressively in strata 3 and 1.

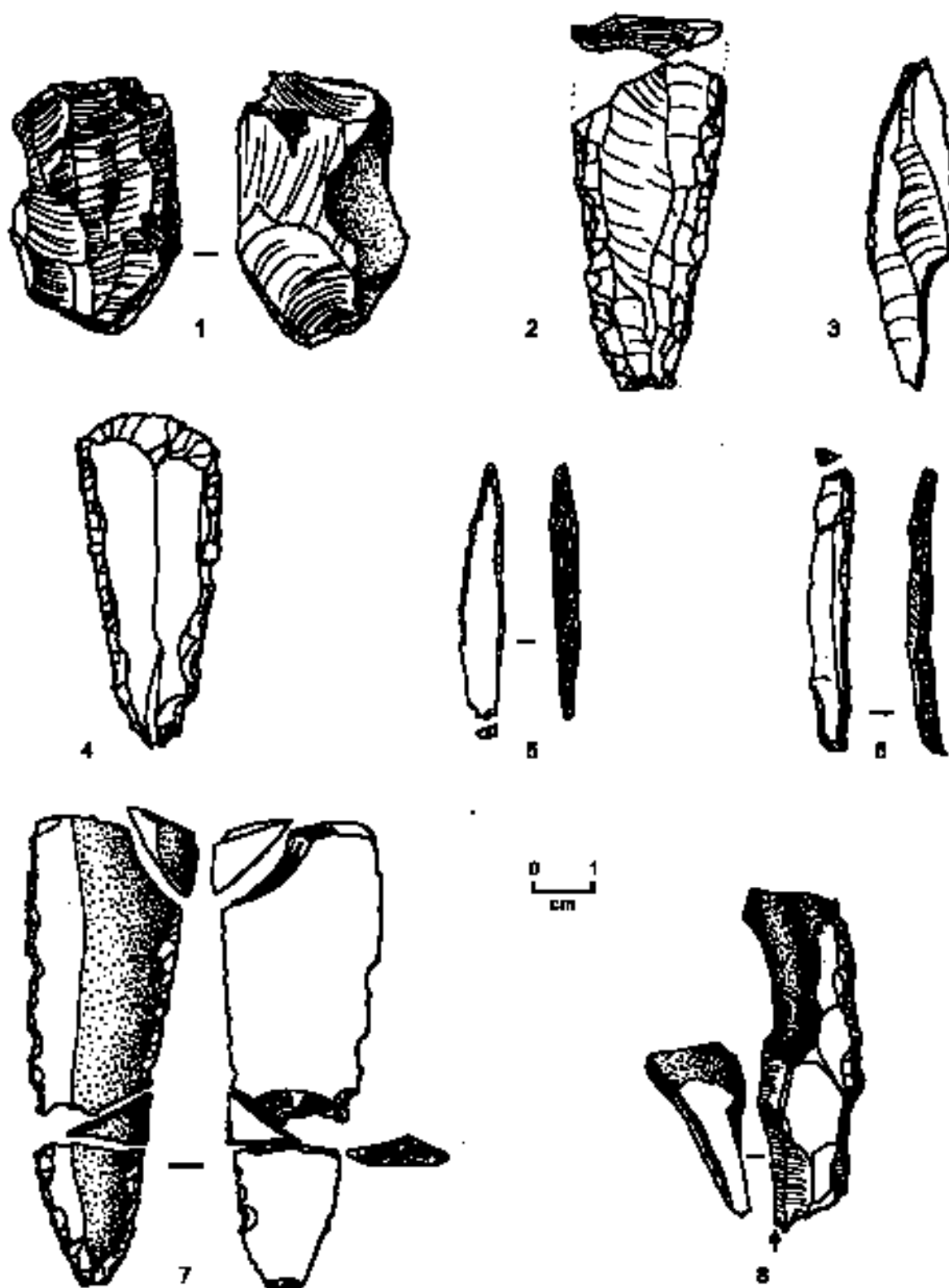


Figure 9 - Kastrisa: selected artefacts from stratum 5 (drawn by E. Adam).

Figure 9 - Kastritsa : sélection d'objets provenant de la couche 5 (dessins : E. Adam).

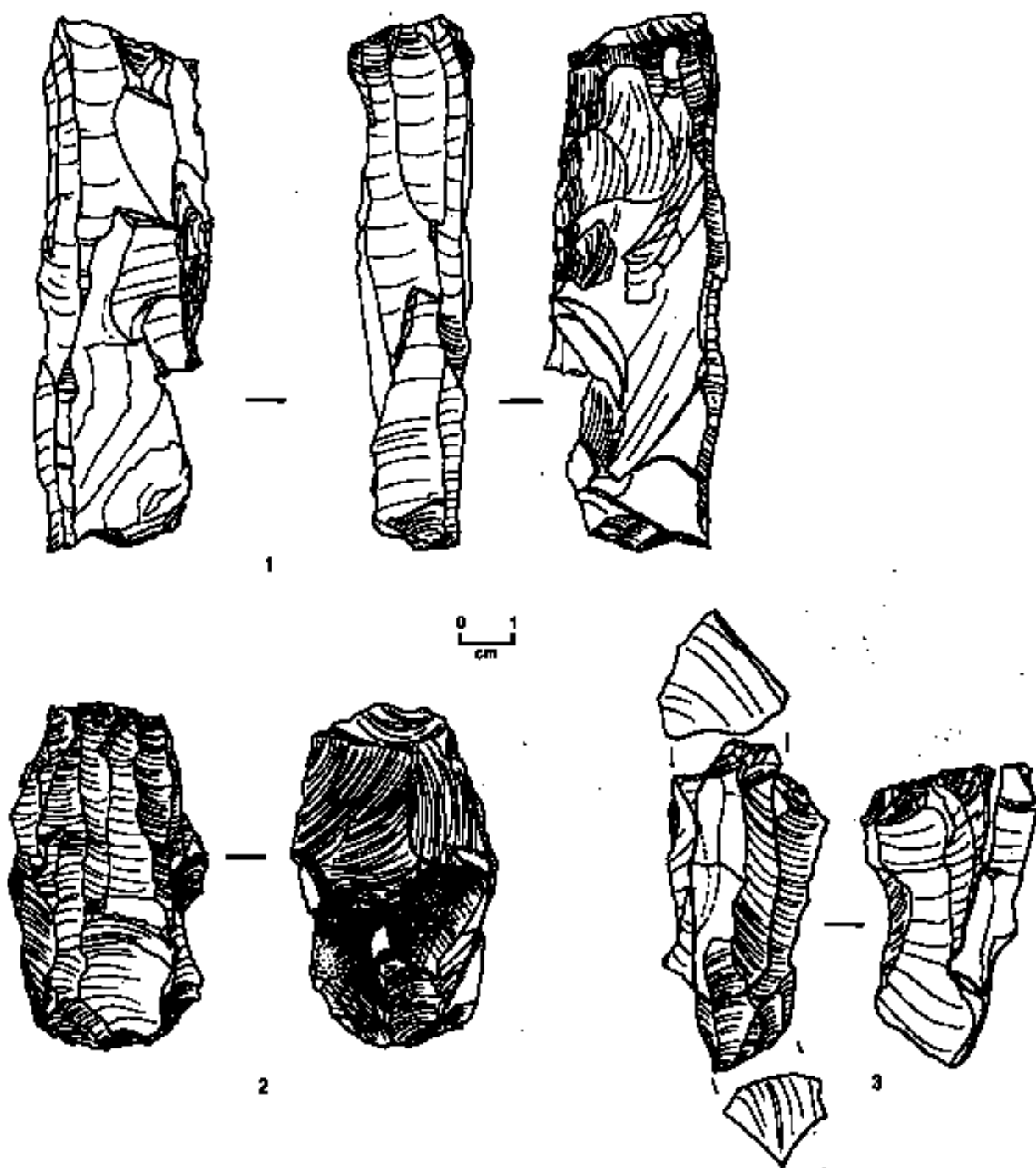


Figure 10 - Kastritsa: selected artefacts from stratum 3 (drawn by E. Adam).

Figure 10 - Kastritsa : sélection d'objets provenant de la couche 3 (dessins : E. Adam).

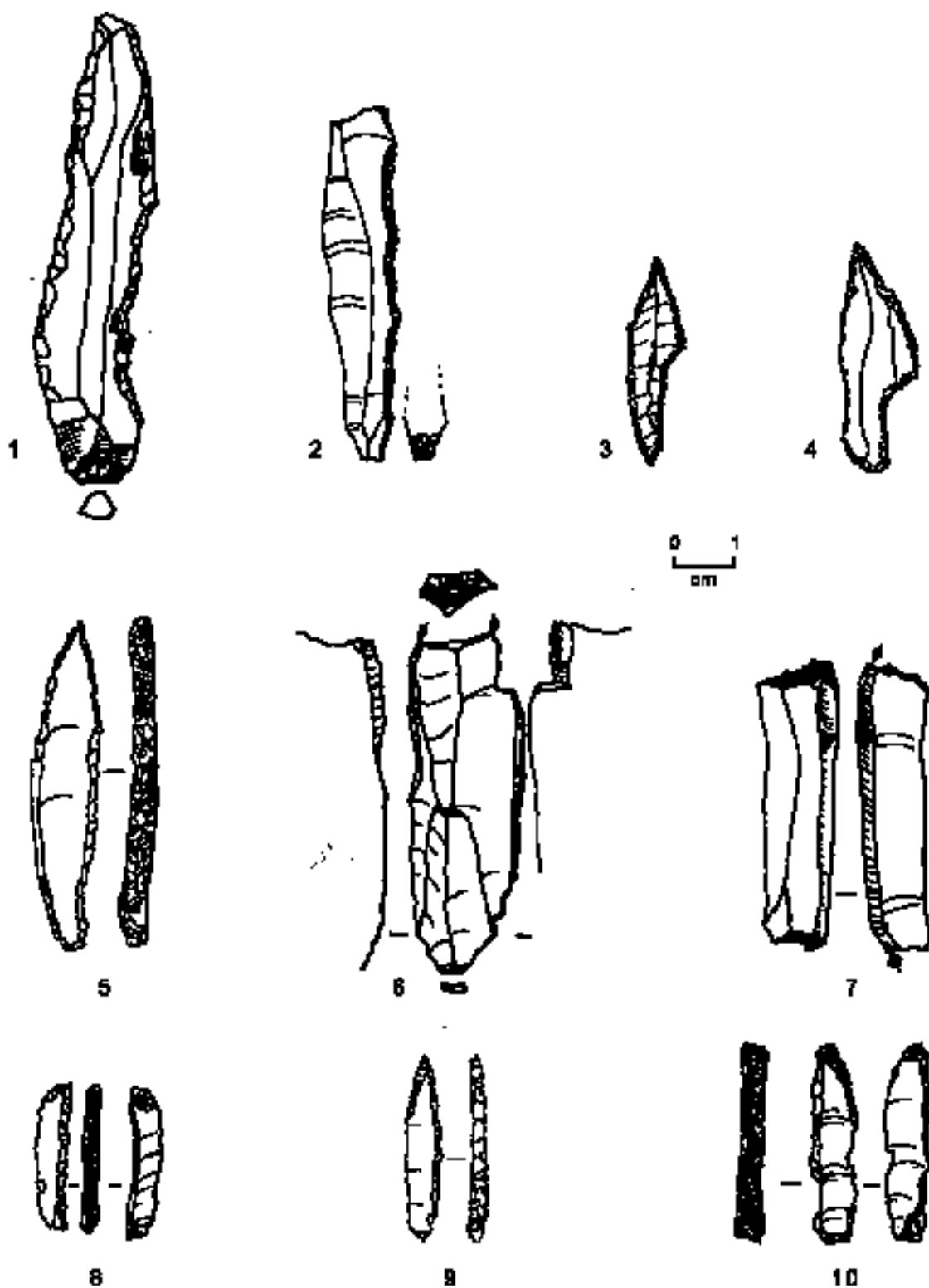


Figure 11 - Kastritsa: selected artefacts from stratum 3, continued (drawn by E. Adam).

Figure 11 - Kastritsa : sélection d'objets provenant de la couche 3 (suite) (dessins : E. Adam).



Figure 12 - General view of the Grava shelter taken from the feet of Mount Mathias (photo: E.Adam).

Figure 12 - Vue générale de l'abri de Grava prise du pied du Mont Mathias (photo : E. Adam).

second platform at opposed axes to the first. The quantities of Voidomatis-type flint increase. Technological innovations include the intentional breakage of retouched and plain blades and the introduction of the microburin technique (albeit in small numbers; it is fully employed in stratum 1). Blade blanks are preferred to flakes for tool manufacture. Laterally retouched blades of various types are the commonest non-bladelet tool type. Burins outnumber end-scrapers, while multiple burins and micropiercers make their first appearance. The bladelet tool class (at 61% of the tool inventory) is dominated by backed bladelets (predominantly unilaterally backed plain, followed by backed bladelets with inversely retouched ends).

Another important feature of the Kastritsa assemblages is the presence of a considerable collection of organic artefacts (Adam and Kotjabopoulou 1997), and of items of personal adornment and of symbolic value. The organic artefacts³, present in the sequence since at least stratum 5 (Adam 1999) were clearly complimentary to the stone tools. Most of them are made on antler, a material more solid and efficient than bone, and easily obtainable by the users of the site. The decorative items include 7 perforated deer canines (one with a decorative design), 2 serpentine beads, 6 perforated *dentalium* sp. shells and 21 perforated shells (including 19 examples of *Cyclope* sp. shells) (Kotjabopoulou and Adam 2004).

The variety of raw materials employed at the Kastritsa industries testifies to access over a wide area of exploitation. Judging by the presence of Voidomatis-type flint and of marine shells, materials were moved/provided for over considerable distances (between 50 and 100+ km). Although over-interpreting the data from a single site is an obvious risk, a picture can be sketched of a dynamic system of resource exploitation, through the exploration of and experimentation with materials and techniques.

The **rockshelter of Grava** (fig.12) is situated on the southern slopes of mount Ay. Mathias in south Corfu, at an altitude of c. 60 masl, and has a commanding view of the entire southern region of the island (Sordinas 1969). Trial excavations in 1966 explored the upper part of the brecciated scree deposits without reaching beyond the numerous rockfalls. No dates are available for Grava. The excavations produced an Upper Palaeolithic stone assemblage of some 2000 artefacts, supplemented by the fragment of an engraved bone, one perforated deer canine, one ochre-stained pebble and numerous pebbles, some with use traces, according to the excavator⁴. Birds abound in the fauna, while herbivores are dominated by *bos primigenius* followed by deer and capra species (Sordinas 1969).

The stone industries, according to the present stage of analysis, include two phases, one comparable to stratum 3 at

(3) With the publication of the organic implements from Kastritsa still pending (undertaken jointly by the author and Dr. Kotjabopoulou), the only comments to be made on these assemblages relate to their impressive number (well over 200 items) and their typological composition (mainly points with simple bases, few spatulas and awls and rare needles).

(4) The re-examination of the stone industries from Grava was initiated by the author in the late 1990's. The analysis is not yet completed; one major drawback is the inability to locate the original excavation records. In the absence of these, and based solely on the artefacts, I am inclined to suggest the presence of two techno-typological horizons, one comparable to that from stratum 3 and another comparable to that from stratum 1, both in the Kastritsa sequence.

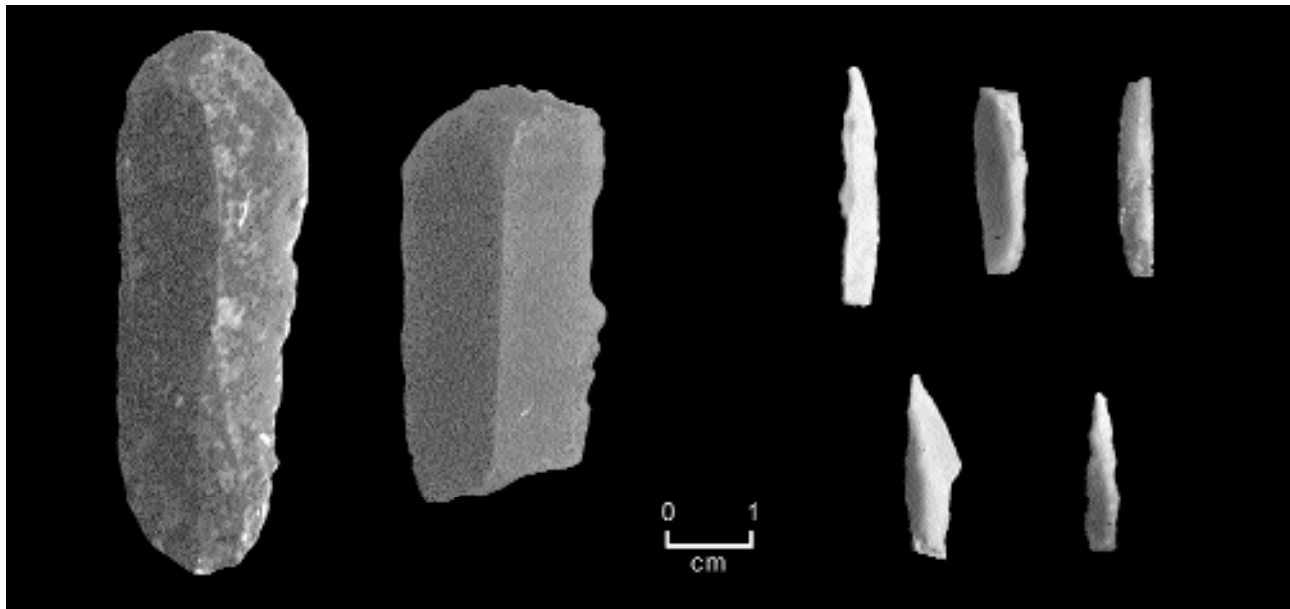


Figure 13 - Grava: selected artefacts (photo: E. Adam).

Figure 13 - Grava : sélection d'objets (photo : E. Adam).

Kastritsa, which is discussed in the present paper. The raw materials include a large variety of mostly fine-grained flints of various colours, similar to those recorded in the Epirus sites. The primary surfaces are cortical, while river-rolled pebbles are absent. Most cores present a single platform, with few opposed ones, and were exploited in order to produce blades and bladelets. Blades are abundant in the debitage class, outnumbering the bladelets. The tool inventory (fig. 13) includes backed bladelets of various types, end-scrapers on retouched blades, burins and retouched blades, with a single occurrence of a shouldered point. Intentional breakage of blades is attested, same as at Kastritsa. The bladelet tool class is represented mostly by unilaterally backed bladelets, with few examples of backed types with retouched ends (occasionally with inverse retouch) and one microgravette. The composition of the bladelet tool class, too, resembles the one from Kastritsa.

CONCLUSIONS

The synthesis on the Gravettian in Greece attempted in this paper is in obvious need of refinement; unfortunately we are pestered with lack of a reliable body of comparable data. The greek record for the period between 30 -20 kyr is scanty and allows no general conclusions to be drawn.

Despite the small number of sites it appears that the region of northwest Greece provides the fullest documentation of Gravettian activity, with Kastritsa emerging as a key site.

Environmental conditions favorable for Palaeolithic settlement and a diversity of resources within a limited area, such as Epirus, provided refuge to human populations. The entire region of western Balkans seems to have acted

during the LGM as a refuge area for populations seeking suitable settlement conditions (Kozłowski 1992). After that period the archaeological record of Greece offers more substantial evidence for occupation through the exploitation of various environmental niches (Bailey and Gamble 1990) made available after about 17 kyr (e.g. the Voidomatis gorge sites, Theopetra, Franchthi)

Returning to Epirus, it is of interest to mention that no Gravettian finds have so far been reported from Albania, a terrain geographically and environmentally closely related to Epirus. Indeed, recent research (surveys and excavations) in Albania has indicated the lack of finds of Gravettian character (Korkuti 2003), a fact interpreted as an indication that occupation in the area was interrupted between 26-13 kyr (Runnels *et al.* 2004).

The present paper merely tackled important issues related to the presence and the character of Gravettian cultural data in the greek Palaeolithic record. Future research will no doubt lead to the revision of the statements presented here.

Acknowledgments

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